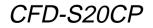
3-241-606-11 (1)

SONY

CD Radio Cassette-Corder

Operating Instructions



©2002 Sony Corporation

Warning

To prevent fire or shock hazard, do not expose the player to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the appliance.

For customers in Canada

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Information

For customers in the United States

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates. uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model number is located at the bottom and the serial number is located in the battery compartment.

Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CFD-S20CP Serial No.

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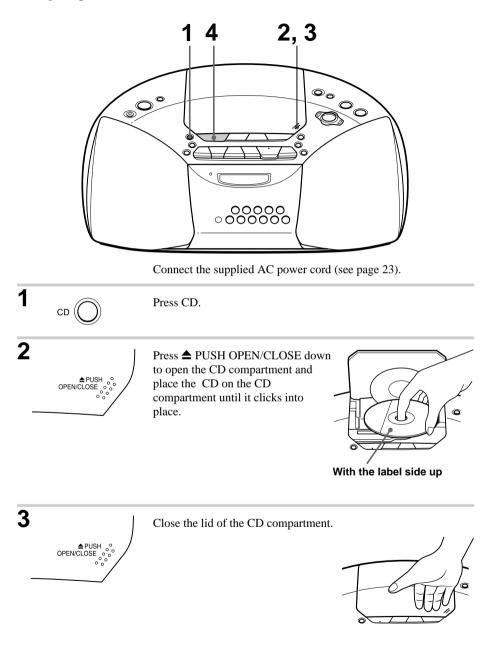
Setting Up

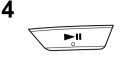
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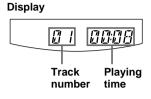
Playing an audio CD or MP3 files





Press \blacktriangleright (\blacktriangleright on the remote). The player plays all the tracks once.

To play a CD with MP3 files, see page 6.



Use these buttons for additional operations POWER FII VOL +, -PUSH OPEN/CLOSE I VOL +, -A PUSH OPEN/CLOSE

т	p

Playback starts from the track you last stopped playing (Resume play). During stop, the track number to be played are displayed.

To cancel the resume play to start play from the beginning of the first track, press ■ in stop mode.

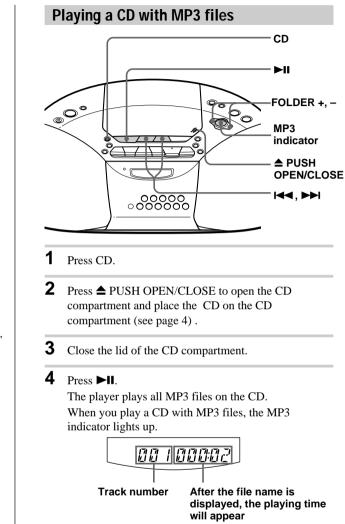
То	Do this
adjust the volume	Press VOL +*,
stop playback	Press .
pause playback	Press ►II* (II on the remote). Press the button again to resume play after pause.
go to the next track	Press >> .
go back to the previous track	Press 🔫 .
remove the CD**	Press PUSH OPEN/CLOSE.
turn on/off the player	Press POWER.

* The button has a tactile dot.

**Once you open the CD compartment, the track to start play will change to the beginning of the first track.

continued

Playing an audio CD or MP3 files (continued)



To select a folder

Press FOLDER + to go forward and FOLDER - to go backward (press FLDR + or FLDR - on the remote).

To select a file

Press \blacktriangleright to go forward and \blacksquare to go backward.

Note

Before playing a file, this player reads all file and folder information on the CD. Depending on the file structure, it may take more than a minute to read them. During this time, "Reading" is displayed.

Тір

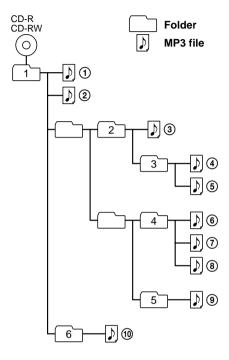
You can use the buttons mentioned in the table on page 5 for additional operations in the same way as when playing an audio CD.

Notes

- A folder that does not include an MP3 file is skipped.
- Maximum number of folders: 255 Maximum number of files: 255
- Folder names and file names can be displayed with up to 64 characters.
- The characters A Z, a z, 0 - 9, and _ can be displayed on this player. Other characters are displayed as "*".
- This player conforms to Version 1.1 of the ID3 tag format. If the file has the ID3 tag information, "song title", "artist name" and "album name" can be displayed.

Example of folder structure and playing order

The playing order of the folders and files is as follows:

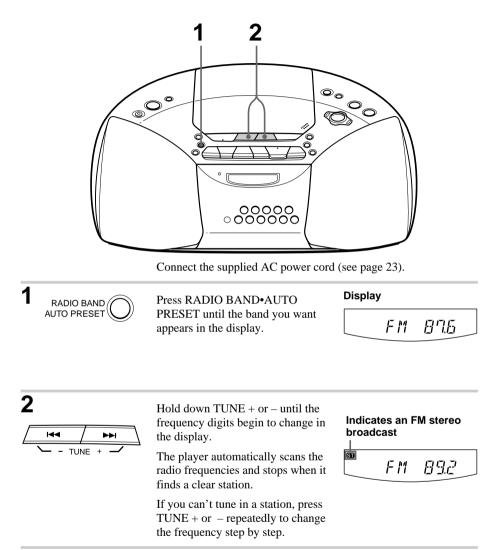


About CD-Rs/CD-RWs and MP3 files

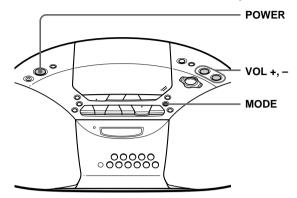
This player can play CD-Rs/CD-RWs recorded in the CD-DA format* and MP3 files recorded in the CD-ROM format, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Listening to the radio



Use these buttons for additional operations



Тір

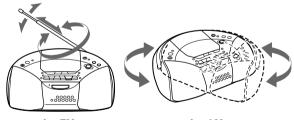
If the FM broadcast is noisy, press MODE until "Mono" appears in the display and radio will play in monaural.

То	Press
adjust the volume	VOL +*, -
turn on/off the radio	POWER

*VOL + has a tactile dot.

To improve broadcast reception

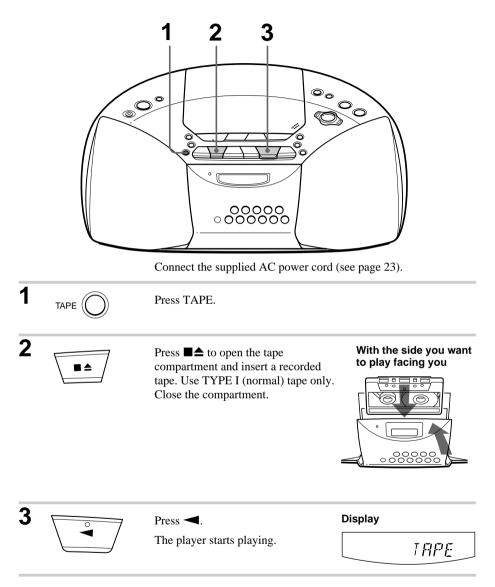
Reorient the antenna for FM. Reorient the player itself for AM.



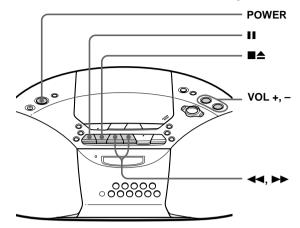
for FM

for AM

Playing a tape



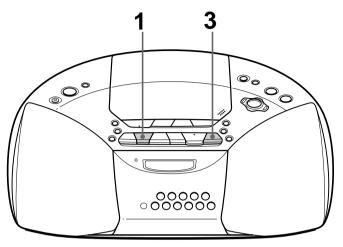
Use these buttons for additional operations



То	Press
adjust the volume	VOL +*, -
stop playback	∎≜
fast-forward or rewind	∢ or ►►
pause playback	Press the button again to resume play after pause.
eject the cassette	∎≜
turn on/off the player	POWER
	POWER

*VOL + and \triangleleft has a tactile dot.

Recording on a tape



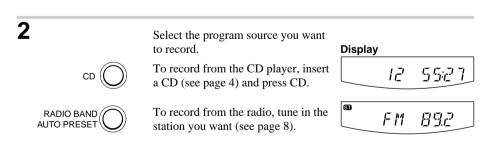
Connect the supplied AC power cord (see page 23).



Press $\blacksquare \triangleq$ to open the tape compartment and insert a blank tape. record on facing you Use TYPE I (normal) tape only. Close the compartment.

With the side you want to

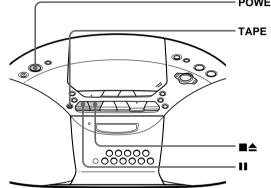






Press ● to start recording (◄ is depressed automatically).

Use these buttons for additional operations



Tips

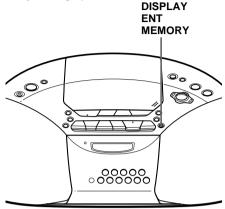
- Adjusting the volume or the audio emphasis (see page 21) will not affect the recording level.
- If the AM program makes a whistling sound after you've pressed ● in step 3, press MODE to select the position of ISS (Interference Suppress Switch) that most decreases the noise.
- For the best results, use the AC power as a power source.
- To erase a recording, proceed as follows:
 - 1 Insert the tape whose recording you want to erase.
 - 2 Press TAPE.
 - 3 Press ●.

То	Press
stop recording	
pause recording	■ Press the button again to resume recording.
turn on/off the player	POWER
	TOWER

The CD Player

Using the display

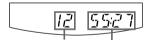
You can check information about the CD using the display.



Checking the information of an audio CD

To check the total track number and playing time of the CD

While the CD is stopped, you can check them in the display.



Total track number Total playing time

To check the remaining time

Press DISPLAY•ENT•MEMORY while playing a CD. The display changes as follows:

→ The current track number and playing time

 ↓
 The current track number and the remaining time of the current track

 ↓
 The number of tracks left and the time
 — remaining on the CD

Checking the information of a CD with MP3 files

To check the total folder number and total file number on the CD

While the CD is stopped, you can check them in the display.



Total folder number

Total track number

To check file information

Press DISPLAY•ENT•MEMORY while playing an MP3 file. The display changes as follows:

→ The current track number and playing time

The current track number and the file name

↓ The folder number and the folder name* ↓

The current track number and ID3: the title name / the artist name / the album name**

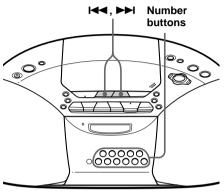
* If the folder does not have a folder name, "Root" appears instead of a folder name.

**If the file does not have ID3 information, "No Title", "No Artist" or "No Album" appears in the display.

Locating a specific track

You can quickly locate any track on a CD using the number buttons.

You can also find a specific point in a track while playing a CD.



To locate	Press
a specific track directly	the number button of the track
a point while	(forward) or
listening to	(backward) while playing and
the sound	hold it until you find the point
a point while	►► (forward) or I◄◄
observing	(backward) in pause and hold
the display	it until you find the point

Notes

- Locating a specific track using the number buttons is only available for the tracks in the selected folder.
- You cannot locate a specific track if "SHUF" or "PGM" is lit in the display. Turn off the indication by pressing ■.

Tips

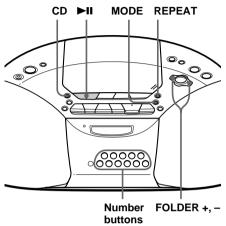
• When you locate a track numbered over 10, press >10 first, then the corresponding number buttons.

Example: To play track number 23, press >10 first, then 2 and 3.

• To select a track numbered over 100 or more, press >10 twice, then the corresponding number buttons.

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, shuffle or program play modes.



1 Press CD.

"CD" appears in the display.

2 Proceed as follows.

To repeat	Do this
a single track	1 Press REPEAT until "REP 1" appears.
	2 Press the number button for the track you want to repeat.
all tracks on the	1 Press REPEAT until "REP ALL" appears.
CD	2 Press ►II.
a selected folder (MP3 CD only)	1 Press REPEAT until "REP FLDR" appears.
	2 Select the folder by pressing FOLDER + or FOLDER –, then press ►II.
tracks in random order	1 Press REPEAT until "SHUF REP" appears.
	2 Press ►II.

To repeat	Do this
programed tracks	1 Program tracks (see step 3 on page 18).
	2 Press REPEAT until "PGM REP" appears.
	3 Press ►II.
programed folders	1 Program folders (see step 3 on page 18).
	2 Press REPEAT until "FLDR PGM REP" appears.
	3 Press ►II.

To cancel Repeat Play

Press REPEAT until "REP" disappears from the display.

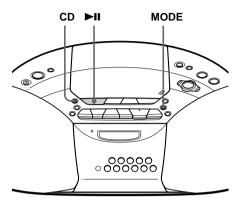
When playing MP3 files

When you select "REP ALL", the player plays all files (up to 255 files) of a CD repeatedly.

The CD Player

Playing tracks in random order (Shuffle Play)

You can play tracks in random order.



- **1** Press CD. "CD" appears in the display.
- **2** Press MODE until "SHUF" appears in the display.
- **3** Press ►II to start Shuffle Play.

To cancel Shuffle Play

Stop playing first. Then press MODE until "SHUF" disappears from the display.

When playing MP3 files

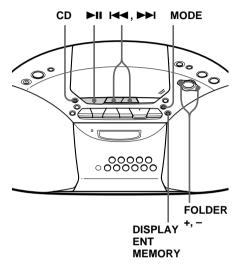
The player plays all files (up to 255 files) on a CD in random order.

Tips

- During Shuffle Play, you cannot select the previous track by pressing I
- The resume function doesn't work during Shuffle Play.

Creating your own program (Program Play)

You can arrange the playing order of up to 20 tracks or files on a CD. When playing an MP3 files, you can also program up to 20 folders (Program Folder Play).



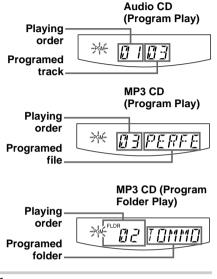
- **1** Press CD. "CD" appears in the display.
- 2 Press MODE until "PGM" appears in the display.

When you select Program Folder Play (MP3 CD only), press MODE until "PGM FLDR" appears in the display.

continued

Creating your own program (Program Play) (continued)

3 Press I ← or ►►I, FOLDER + or – then press DISPLAY•ENT•MEMORY for the tracks or files* you want to program in the order you want. *folders for Program Folder Play.



4 Press ►**II** to start Program Play.

To cancel Program Play

Stop playing first. Then press MODE until "PGM" disappears from the display.

To check the order of tracks before play

Press DISPLAY•ENT•MEMORY.

Every time you press the button, the track or folder number appears in the programed order.

To change the current program

Press ■ once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programing procedure.

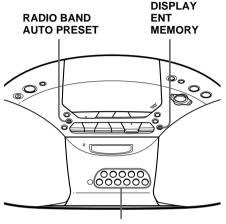
Tips

- You can play the same program again, since the program is saved until you open the CD compartment.
- You can record your own program. After you've created the program, insert a blank tape and press to start recording.
- The resume function doesn't work during Program Play.

The Radio

Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.



Number buttons

- **1** Press RADIO BAND•AUTO PRESET to select the band.
- 2 Hold down RADIO BAND•AUTO PRESET until "AUTO" flashes in the display.
- **3** Press DISPLAY•ENT•MEMORY. The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

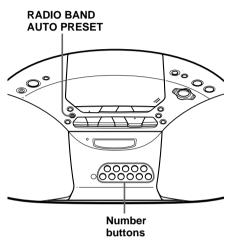
- **1** Press RADIO BAND•AUTO PRESET to select the band.
- **2** Tune in a station you want.
- **3** Hold down the number buttons that you want to preset the new station on for about 2 seconds.

To select the preset number over 10, press >10 first, then the corresponding number buttons.

You need to hold down the last number button to enter for about 2 seconds. (Example: To select 12, press >10 and 1 first, then hold down 2 for about 2 seconds.)

Playing preset radio stations

Once you've preset the stations, use the number buttons to tune in your favorite stations.

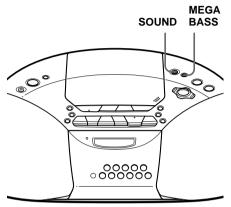


- **1** Press RADIO BAND•AUTO PRESET to select the band.
- **2** Press the number buttons to tune in the stored station.

To tune in a preset station over 10, press >10 first, then corresponding number buttons. (Example: To tune in a preset station 12, press >10 and 1 first, and then press 2.)

Adjusting the sound emphasis

You can adjust the audio emphasis of the sound you are listening to.



Selecting the sound characteristic

Press SOUND repeatedly to select the audio emphasis you want.

Choose	To get
	 powerful, clean sounds, emphasizing low and high range audio
	light, bright sounds emphasizinghigh and middle range audio
	percussive sounds, emphasizing bass audio
	the presence of vocals, stressing middle range audio
	the whole dynamic range for music such as classical music

Reinforcing the bass sound

Press MEGA BASS to display "MEGA BASS".

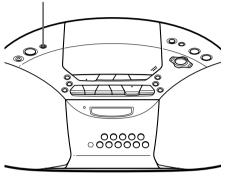
To return to normal sound, press the button again.

The Timer

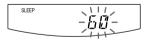
Falling asleep to music

You can set the player to turn off automatically after 10, 20, 30, 60, 90 and 120 minutes, allowing you to fall asleep while listening to music.

SLEEP



- **1** Play the music source you want.
- **2** Press SLEEP to display "SLEEP."
- Press SLEEP to select the minutes until the player goes off automatically. Each time you press the button, the indication changes as follows:
 "60" → "90" → "120" → "OFF" → "10" → "20" → "30".



If 4 seconds have passed after you pressed SLEEP, the minutes in the display are entered.

When the preset time has passed, the player goes off automatically.

To cancel the sleep function

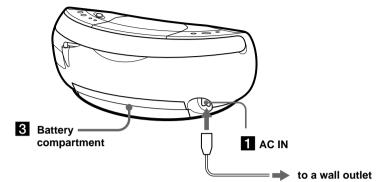
Press POWER to turn off the power.

Note

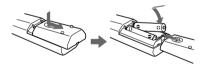
When you are playing a tape using this function: If the tape length of one side is longer than the set time, the player will not go off until the tape reaches the end.

Choosing the power sources

You can use the AC power or batteries as a power source.



- 1 Connecting the AC power cord Insert one end of the supplied AC power cord to the AC IN socket located at the rear of the player, and the other end to the wall outlet.
- 2 Preparing the remote Insert two size AA (R6) batteries (not supplied).



Replacing batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones. 3 Using the player on batteries Insert six size D (R20) batteries (not supplied) into the battery compartment. To use the player on batteries, disconnect the AC power cord from the player.

Replacing batteries

Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones.

Notes

- Before you replace the batteries, be sure to take out the CD from the player.
- When you operate the player with the batteries, you cannot turn on the player with the remote.

Additional Information

Precautions

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

On power sources

- For AC operation, use the supplied AC power cord; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Unplug the player from the wall outlet when it is not to be used for an extended period of time.
- For battery operation, use six size D (R20) batteries.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

On placement

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.

- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Notes on CDs

• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.

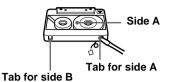


- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
- After playing, store the CD in its case.

If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

Notes on cassettes

• Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



• The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Troubleshooting

General

The power is not on.

- Connect the AC power cord to a wall outlet securely.
- Make sure the batteries are inserted correctly.
- You cannot turn on the player with the remote when you operate the player on batteries.

The power is not on, and "BATT" and "ERROR" are displayed alternately.

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

There is no audio.

- · Adjust the volume.
- Unplug the headphones when listening through speakers.

Noise is heard.

 Someone is using a portable telephone or other equipment that emits radio waves near the player. → Move the portable telephone, etc., away from the player.

CD Player

"no DISC" is displayed even when a CD is in place.

- Insert the CD with the label surface up.
- The CD-R/CD-RW is blank.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.

The CD does not play.

- Make sure that the CD compartment is closed.
- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- Make sure "CD" appears in the display.

The sound drops out.

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the player in a location free from vibration.
- The sound may drop out or noise may be heard when using poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

"NOT MP3" is displayed.

• You are trying to play a file that is not an MP3 file but has extension "mp3". (page 30)

"NOT MP3" and "LAYER 1", or "NOT MP3" and "LAYER 2" are displayed alternately.

• You are trying to play an MPEG1 Audio Layer-1 or 2 file. You can only play MP3 (MPEG 1 Audio Layer-3) files on this player. (page 30)

"no MP3" is displayed.

• There are no MP3 files on the disc.

Radio

The audio is weak or has poor quality.

- Replace all the batteries with new ones if they are weak.
- Move the player away from the TV.
- If you are using the remote while listening to AM radio, noise may be heard.

The picture of your TV becomes unstable.

• If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

Tape Player

The tape does not move when you press an operation button.

• Close the cassette compartment securely.

The REC ● button does not function or the tape does not play or record.

• Make sure the safety tab on the cassette is in place.

The tape does not erase completely.

- Clean the erasing head (see page 28).
- Replace all the batteries with new ones if they are weak.
- The source which was recorded on TYPE II (high position) or TYPE IV (metal) tape using this unit is being played. Record on TYPE I (normal) tape and play.

The tape does not record.

- Make sure the tape is inserted properly.
- Make sure the safety tab of the cassette is in place.

The audio is weak/The audio quality is poor.

- Clean the heads, pinch roller and capstan (see page 28).
- Demagnetize the heads using a demagnetizer (see page 28).

The sound is distorted.

• The TYPE II (high position) or TYPE IV (metal) tape is being used. Use TYPE I (normal) tape only.

Remote

The remote does not function.

- Replace all the batteries in the remote with new ones if they are weak.
- Make sure that you are pointing the remote at the remote sensor on the player.
- Remove any obstacles in the path of the remote and the player.
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
- Move closer to the player when using the remote.

After trying the above remedies, if you still have problems, unplug the AC power cord and remove all the batteries. After all the indications in the display disappear, plug the AC power cord and insert the batteries again. If the problem persists, please consult your nearest Sony dealer.

Maintenance

Cleaning the lens

If the lens becomes dirty, it may cause a skipping of sound during CD operation. Clean with a commercially available blower.

Cleaning the tape heads and tape path

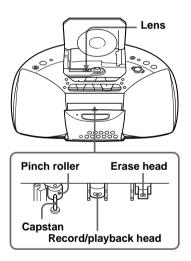
Wipe the heads, the pinch roller and the capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol after every 10 hours of operation for optimum playback and recording quality. To make the best possible recording, however, we recommend that you clean all surfaces over which tape travels before each recording.

Demagnetizing the tape heads

After 20 to 30 hours of use, enough residual magnetism will have built up on the tape heads to begin to cause loss of high frequency sound and hiss. At this time, you should demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.



After cleaning, insert a tape when the areas cleaned are completely dry.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 150 - 6,300 Hz; rated 1.8 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other Specifications

CD player section

System Compact disc digital audio system Laser diode properties Material: GaAlAs Wave length: 780 nm Emission duration: Continuous Laser output: Less than 44.6 µW (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.) Spindle speed 200 r/min (rpm) to 500 r/min (rpm) (CLV) Number of channels 2 Frequency response 20 - 20 000 Hz +1/-2 dB Wow and flutter Below measurable limit

Radio section

Frequency range FM: 87.5 - 108 MHz AM:530 - 1 710 kHz Antennas FM: Telescopic antenna AM: Built-in ferrite bar antenna

Cassette-corder section

Recording system 4-track 2 channel stereo Fast winding time Approx. 120 s (sec.) with Sony cassette C-60 Frequency response TYPE I (normal): 80 - 10 000 Hz

General

Speaker Full range: 10 cm (4 in.) dia., 3.2Ω , cone type (2) Outputs Headphones jack (stereo minijack) For 16 - 68 Ω impedance headphones Power output 2.3 W + 2.3 W (at 3.2Ω , 10 % harmonic distortion) Power requirements For CD radio cassette-corder: 120 AC, 60 Hz 9 V DC, 6 size D (R20) batteries For remote control: 3 V DC, 2 size AA (R6) batteries Battery life

For CD radio cassette-corder:

FM recording

Sony R20P: approx. 13.5 h

Sony alkaline LR20: approx. 20 h

Tape playback

Sony R20P: approx. 7.5 h

Sony alkaline LR20: approx. 15 h

CD playback

Sony R20P: approx. 2.5 h

Sony alkaline LR20: approx. 7 h

Dimensions

Approx. 386 × 166 × 252 mm (w/h/d) (15 ¼ × 6 ½ × 10 inches) (incl. projecting parts) Mass Approx. 3.3 kg (7 lb. 4 oz) (incl. batteries) Supplied accessories

AC power cord (1) Remote control (1)

Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphones series

About "MP3"

What is the MP3?

MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing a sound sequence. The file is compressed to about 1/10 of its original size. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed.

Playable "MP3" files on this player

You can only play MP3 files recorded by following requirements.

USABLE MEDIA

CD-Rs and CD-RWs

USABLE DISC FORMAT

You can use ISO 9660 Level 1, Level 2 and Joliet extension format discs. In some cases, MP3 files that are recorded in a format other than these formats may not play normally or the file and folder names may not be displayed correctly.

The major specifications of the usable disc format are as follows:

- Maximum directory steps: 8
- Usable characters for a file/folder name: A - Z, a - z, 0 - 9, _ (underscore)
- Maximum number of characters for a file name: 64 including quotation marks and a 3-character extension code

Notes

- When naming, be sure to add the file extension "mp3" to the file name.
- If you put the extension "mp3" to a file other than an MP3 file, the player cannot recognize the file properly and will generate random noise that could damage your speakers.
- The file name does not correspond to the ID tag.

THE USABLE NUMBER OF FOLDERS/FILES

- Maximum folder number: 255
- Maximum file number: 255

SETTINGS FOR COMPRESSION SOFTWARE AND WRITING SOFTWARE

- To compress a source for an MP3 file, we recommend setting the transfer bit rate of the compression software to "44.1 kHz", "128kbps", and "Constant Bit Rate".
- To record up to the maximum capacity, set to the "halting of writing".
- To record at one time up to the maximum capacity on media that has nothing recorded it, set to "Disc at Once".

NOTES FOR SAVING FILES ON THE MEDIA

When the disc is inserted, the player reads all the files on that disc. If there are many folders or non-MP3 files on the disc, it may take a long time for play to begin or for the next MP3 file to start play.

Do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.

We recommend that you do not save other types files or unnecessary folders on a disc that has MP3 files.

About "ID3 tag"

ID3 tag is a format for adding certain information (song title, artist name, album name, etc.) to MP3 files.

This player conforms to Version 1.1 of the ID3 tag format. If the file has the ID3 tag information, "song title", "artist name" and "album name" can be displayed.

Note

If you use a version other than 1.1, ID3 tag information will not be displayed correctly.

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For customers in the USA

Please register this product on line at http://www.sony.com/productregistration.

Proper registration will enable us to send you periodic mailings about new products, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.